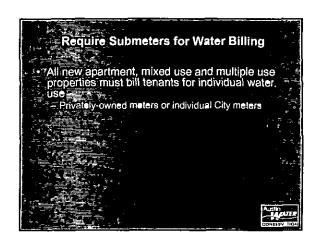


Plumbing Fixture Retrofit Plumbing fixtures in MF and ICI properties must comply with current plumbing code standards by December 31, 2011; or upon sale of property, whichever is earlier. Plumbing fixtures in single family properties must comply with current plumbing code standards by December 31, 2009 City would enforce compliance on notification of property transfer



Plumbing Code Changes

- Prohibit liquid ring surgical/dental vacuum pumps
- Require conductivity controllers for steam boilers
- Set maximum flush volume of 0.5 gpf for urinals
- Limit commercial dishwashers to 0.9 gal/rack or 180 gal/hr
- Prohibit garbage grinders in restaurants and cafeterias



Cooling Tower Efficiency Requirements Cooling towers permitted after effective date must have: a) makeup and blowdown meters. b) conductivity controllers. c) evertion alarms. d) errit eliminators, and e) a minimum of 5 cycles of concentration. Existing cooling towers must install above by 12/31/2010

- Continue rebates to encourage irrigation reuse
- Require reuse of A/C condensate in new large commercial properties



Car Wash Efficioney Standards

- Limit conveyor was hes to 40 gallons/car or less?
- Limit in-bay washes to 55 gallons/car or less
- Umit large vehicle (bus or large (ruck) washes to 75 gallons/vehicle or less
- <u>Unithandwardnozzlesto8gpmortess</u>

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Commercial Clothes Washer Standards

- Selmax water factor of 8.0 for new clothes washers
 - Does not include single-load soft mount machines (residential)
- Existing coin-opequipment must comply by December 31, 2010



Expand Water Use Management Ordinance

Permanent Water Use Restrictions (§6-4-63)

- Give commercial and multifamily proporties 2 watering days of week
- Prohibit automatic irrigation between 10am and 7pm
- Require rain shut-offs on all existing systems

- Water Conservation Stage One Regulations (§6.4-64)

 o Give site of the properties with cutomatic inferior 2 watering days a week
- Rohibikondoorwatering between (Oamend/Ipm)
 Exceptivite fland-field bosoortend-field burket



Now Landscape and Irrigation Standards

Residential

- sidentiali New infigation systems must medidesign requirements, and will be subject to final oily inspection
- Installers imust develop an as-built design plan and water budget prior to final inspection
- Soil depth for new homes
 - Require minimum 6" soil depth for now homes with shallow soil profiles (Asilowith 6" of existing soil does not need to add soil.
- Require new turf installations to meet dormancy (equirements



New Landscape and Impation Standards, conf.

Commercial and Mullifamily.

- New irrigation systems (must meet design requirements, and will be subject to final City inspection)
- Installers must develop an estabilit design plan and water budget prior to final frapection
- Minimum depth of G' of soil meeting @ity specifications
- Turigrasses in landscape meet dormancy requirements



WaterWise Landscape Option

- Require homebuilders to offer a WaterWise landscape option in any series of landscape options offered to prospective from buyers
- Only plants from CoA preferred list or with similar drought-tolerant characteristics
- Turfgrass covers no more than 50% of landscape area
- Turigrass medis dormancy requirements

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Irrigation System Analyses

- Commercial, multi-family and municipal properties with automatic irrigation systems over 1 acre or with high water use must submit an irrigation analysis to Austin Water Utility once every three years according to a staggered schedule.

 High-volume residential customers:
- - Require irrigation analysis once every three years
 - Applies to residential properties that:
 - Exceed 35,000 per month at least once in each of two consecutive catendar years and Are under same ownership for that period



Leak Detection Contract

- Continue annual funding for Leak Detection Contract

 Approved by Council on October 19, 2006

 Examines 600 linear miles of pipe

 - Initially focuses on cast iron pipe to find leaks not yet surfaced
- Support Utility's ongoing efforts to repair leaks in a shorter time frame



CIP funding for reclaimed water projects

- Approve funding as part of Utility's Capital Improvement Plan for reclaimed water projects to be started in 2007 and completed by 2011

 UT Transmission Main (4.0 MGD)

 ABIA Transmission Main (0.6 MGD)

 Smith Road Extension (0.5 MGD)

 Main to the Roy G. Guerrero Colorado River Park (1.0 MGD)

 24* Rehabilitation (necessary for Guerrero Park/Smith Road)

 12* Rehabilitation (necessary for Smith Road extension)
- Require customers with access to reclaimed water to use it for irrigation, cooling and other non-potable uses

 Exceptions for health, safety, and availability



Adjust Utility Water Rates

- Establish a fifth tier for residential customers using more than 25,000 gallons
- Conduct cost of service study to evaluate strategies that will reduce demand by 5 MGD Set rate for inth tier for residential customers

 - Establish irrigation rates
 Water budgeting rate for non-residential customers
- Conservation rate structures for wholesale customers
 Implement strategies feasible under the current billing system as soon as possible
 Implement strategies that are not feasible under the current system after the new billing system is adopted



Modify Utility Bills

- Add graphs of historical and current water use to customer bills
- Require new billing system to:

 Have water budget capabilities

 Se able to include additional page.
 - Se able to include additional conservation information
 Have ability to notify customers when consumption increases dramatically



Wholesale Customers

- Follow-up on contracts that require water conservation measures to be implemented
- Request customers whose contracts don't require conservation to implement conservation measures
- Require any new, amended, or renewed contracts to contain conservation measures comparable to what the City has in place



Increase Water Efficiency in City Facilities

- Require water conservation elements as part of LEED certification for new City facilities
- Require all athletic fields to pay for water above a predetermined water budget
- determined water budget
 Follow through with water efficiency recommendations from the current performance contract, including:
 - Improving cooling tower operations

 - Completing the retrofit of plumbing fixtures
 Installing weather-based controllers under Parks Department management on 39 sthletic fields



Reduce Excessive Water Use Due to High Pressure

Change plumbing code to require pressure reduction valves (PRVs) on new residential properties with pressure above 65 psi

Offer \$100 rebate for installing PRVs on existing residential properties with pressure over 80 psi



Alternate Water Sources

- Water Conservation and Watershed Protection staff will meet to explore opportunities for stormwater reuse and other alternative water sources
- Water Conservation and Watershed Protection staff will draft plumbing code language to address non-potable water usage



Comprehensive Public Education Program

- Build Water Conservation "brand"
 - Gradual shift to uniform look and tone for all materials
- Implement extensive outreach for new policy changes
- = 5-month campaign May 1 through September 30
- Radio, TV, Outdoor, Print, Web, E-mail
- Alert public to new policies, penalties
- Promote incentive programs and ways to cut water use



IN ARBER OF BAVINGS	Peak Bay Savings (MGB)	FTE	Average Year City Cect	Total Cact per Gallen
Enhanced Water Use Management	€14 c	13 = 4	-2 \$187.58 5	\$0.30
Recirimed Water Use	F95	= 1.3	£1,250.800	gE 10
Ugilly Water Paries		- J.	T -7 180	14
Reducing Water Less	4 64		-= ' \$100 000	\$9.21
Mandatory Todat Retroite	2 10	, "2,×	5542.530 ·	\$2.77
Across Irrigation System Analyses	147	2	7 2 \$13E 000	Ç4 340
nesidential insigntion Standards		•	\$845,600	\$1 MA
Co ^{thing} Tomers	. 0.95	925	. 🕮 . \$15 860	\$0.16
Phyridding Code Changes	0.04	0.50 =	\$30,000	20.38
Communical trigation Standards	0.74	2 4	· 连 \$126,600	\$1 6 2
Enforced irrigation Audit Progress	. 0 63	⊷ #(三字 = \$137 500	\$2.18
Submittering .	†44 -	0.50	Tan \$30.000 ;	\$8.48
Residential Landscape Grainence	14	2 _=	当三年 \$125.00	\$2.84
Commercial Ciethes Weshers	0.43 d	a. € 25 😐	E.E. \$15 000	50 35
City Facility Conservation	0.37	2 -	유,렇(무기, \$#) (\$0
Winter Leak Setection Program	0.31	(4 ## <u></u>	- Table 54	10
Pressure Reduction Program .	929		E.P. ** \$30.000	\$107
WeterWise Landseape Syllen	♦ 21	.0 25 =	= = \$15 0ml	\$8.71
Cerl Western	0.15	0.25	= \$15 000 (\$1.00
Enfunced Public Education	N/B		\$725,600	-
TOTALE A	32 74	7.00	= \$6.714.500°	